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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|-----------------|-------------|----------------------|---------------------|------------------|
| 10/614,014      | 07/08/2003  | Jin-Soo Park         | P23922              | 9514             |

7055 7590 12/13/2004

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EXAMINER

LAM, THANH

ART UNIT PAPER NUMBER

2834

DATE MAILED: 12/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/614,014

Applicant(s)

PARK ET AL.

Examiner

Thanh Lam

Art Unit

2834

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 20 October 2004.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-22 is/are pending in the application.
- 4a) Of the above claim(s) 14-22 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-11 is/are rejected.
- 7) ☒ Claim(s) 12 and 13 is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Election/Restrictions***

1. Applicant's election with traverse of Species A of group I, claims 1-13 in the reply filed on 10/20/2004 is acknowledged. The traversal is on the ground(s) that "the search for the claims of Inventions I and II, and Species A-E are at least partially coextensive, and because there is not a large number of pending claims, there would be no serious burden on the Examiner to examine all of the claims of this application." This is not found persuasive because the invention (I) is a final product is distinct from the invention (II) which is process of the making, regarding the Species A-E is a separated status.

The requirement is still deemed proper and is therefore made FINAL.

***Claim Rejections - 35 USC § 102***

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

3. Claims 1-13 are rejected under 35 U.S.C. 102(b) as being anticipated by Hallerback (US 3,866,071).

Regarding claim 1, Hallerback discloses a motor stator assembly comprising: a plurality of yokes (37,45) comprising a laminated plurality of steel sheets having a predetermined length; and a plurality of poles (3) on which a coil (7) is wound the poles engaged between the yokes and comprising a molded magnetic material (see claim 1).

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Regarding claim 2, Hallerback discloses at least one of the poles the comprises: a guide part having a circular arc shape, for collecting magnetic flux; a winding portion connected to a rear surface of the guide, on which the coil is wound; and a connector formed at a rear surface of the winding portion and connected to at least one of the yokes .

Regarding claim 3, Hallerback discloses at least one of the poles comprises iron powder.

Regarding claim 4, Hallerback discloses an insulator is attached to an inside of the winding portion and the pole for insulating the pole from the coil.

Regarding claim 5, Hallerback discloses a molded nonconductive material provided at an inner side of the winding portion and the pole for insulating the pole from the coil.

Regarding claim 6, Hallerback discloses the nonconductive material is comprises epoxy.

Regarding claim 7, Hallerback discloses the guide comprises an inner surface of a circular arc shape, for collecting magnetic flux to a rotor by guiding the rotor.

Regarding claim 8, Hallerback discloses a height and a length of the winding portion are less than a height and a height of the guide preventing the coil from protruding out of the guide when the coil is wound on the winding portion and allowing the coil to be wound several times, and an outer circumference surface of the winding portion is formed concavely so that the coil can be wound thereon.

Regarding claim 9, Hallerback discloses an edge, at an outer circumference surface of the winding portion is formed as a curved line in order to prevent coating of the coil from falling off when the coil is wound.

Regarding claim 10, Hallerback discloses the connector has a circular arc shape and comprises a plate having a constant height and a width.

Regarding claim 11, Hallerback discloses the yoke is engaged between two connectors and the plurality of yoke plates constant curvature radius are laminated as to have a the height of the connector.

#### ***Allowable Subject Matter***

4. Claims 12-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Prior art of record fail to disclose a connecting projection has a protruding rectangular shape and engages with a rectangular the connecting groove in order to prevent the yoke from being separated from the connector for engaging the yoke and the connector are formed with the same height as the yoke and the connector.

#### ***Conclusion***

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thanh Lam whose telephone number is (571) 272-2026. The examiner can normally be reached on t-f 9-7.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Darren E Schuberg can be reached on (571) 272-2044. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).



Thanh Lam  
Primary Examiner  
Art Unit 2834

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